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AENEAS

innovAtive ENErgy storage systems onboArd vesselS

Deliverable D7.5: Dissemination activities overview report

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Project Abstract

AENEAS aims to contribute towards climate-neutral and environmentally friendly water transport through three new next generation clean energy storage solutions. Eventual impact is an increase of the global competitiveness of the EU waterborne transport sector by European technology leadership for energy storage solutions for diverse waterborne applications.

AENEAS will develop three innovative electric Energy Storage Solutions (ESS) for waterborne transport, which are advanced beyond the traditional battery systems, including Solid-state batteries (SSB), Supercapacitors (SC) and a Hybrid system which combines SSB and SC.

The solutions enable (partial or full) electric shipping, taking into account conditions specific ships might encounter, including adverse conditions outside sheltered waters or going upstream on rivers. AENEAS will evaluate them for a range of applications and end uses in short-sea shipping and in-land waterways. At the same time AENEAS will define the pathway for the three ESSs for application in different ship types, achieving a comprehensive understanding of the ESSs and their applicability for diverse waterborne transport.

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Public Summary

The present deliverable contains a comprehensive record of the activities, which took place during the three project years (M1–M36: February 2023 – January 2026) of AENEAS, to increase public visibility of the project as well as its outcomes. The activities are based on the strategy for the dissemination and exploitation presented in the D7.1 “Project website”, D7.2 “Communication and dissemination plan report”, and D7.3 “Revision of Communication and dissemination plan report”. The existing plan, at hand, describes development and updates of dissemination activities of the AENEAS project. Furthermore, deliverable D7.5 summarises all activities samples of lists and other presentations for documentation of all the dissemination and exploitation measures that have been implemented during M1 to M36. It contains a list of published contents of AENEAS activities on the website – including a website analysis - as well as a list of visited conferences and speeches. This document has been a living document and has been monitored and updated during the project lifetime. It describes the process and methodology behind the dissemination of project results.

Keywords: Dissemination, Exploitation, Publications, Communication activities, Summary report, LinkedIn, Social Media, Website

1 Objectives

1.1 Specific objectives of D7.5

The objectives of this dissemination and exploitation summary report are to record activities performed during the three project years (M1 – M36). All dissemination and exploitation activities towards external stakeholders have created a steady impression of the AENEAS project, and therefore guarantee a consistent AENEAS brand image right throughout the whole project duration and beyond. The general objectives of AENEAS dissemination activities are:

- Objectives of external dissemination and exploitation activities
    - Inform & Educate
        - Raise awareness in stakeholder groups concerning the activities within the AENEAS project
        - Get recognition for the research results
        - Give public evidence of project proceedings (deliverables)
    - Promote & Sell
        - Raise awareness among potential future customers of the products developed in the project
        - Promote project and create image
    - Engage & Involve
        - Communicate/disseminate the knowledge to the international maritime transport community and beyond (after protection of intellectual property)
        - Interact with international partnerships and counterparts

The objective of this deliverable is to present the dissemination and communication activities for the AENEAS project that have taken place, as well as, those that are envisioned beyond the end of the official project's period. In this context, the term dissemination refers to the process of making available the concepts, results and deliverables to relevant stakeholders and to the wider audience. This deliverable summarises and reports both the individual partner and consortium wide dissemination and exploitation activities carried out over the project lifetime.

Attainment of the objectives and explanation of deviations

All the objectives of the task have been met and achieved, without any deviation having occurred in both the content and the execution time.

2 Final communication and dissemination report

2.1 Stakeholders and target audiences

For specifying goals of the AENEAS project as well as for communication with partners, the public and everyone affected by the AENEAS project it was vital, to identify the relevant stakeholders and target groups. The strategy to engage the stakeholders in the project involves a multifaceted approach that emphasizes open communication, active participation and mobilization and collaboration. The stakeholder engagement strategy actively involves stakeholders in order to gather their input, perspectives, and feedback throughout the project.

A more detailed report on the stakeholders engagement can be found in D7.4 “Final stakeholder definition and engagement plan”.

2.2 Communication and dissemination channels

The AENEAS consortium jointly addresses the various stakeholder and target audiences as described above in the introduction. Therefore, the following communication channels and activities have been implemented:

- AENEAS website: download of public deliverables, short explanatory information, press releases, photos, videos, project flyers and newsletters with easily digestible information
- LinkedIn: social media platform for higher scope of stakeholder
- Press releases and Newsletter: database of relevant stakeholders, interested parties and people
- Publications in internationally renowned business and scientific journals
- International conferences: speeches and presentation of project results, presence at exhibitions and trade fairs (booth, poster, flyers)
- Workshops
- E-lectures

2.2.1 Project Corporate Identity

An attractive and strong project corporate identity is crucial to ensure better visibility and to create a coherent and highly recognizable image of the project. The corporate identity uses a set of graphic elements to easily identify the AENEAS Project. The overall aim was to create a coherent and highly recognizable image of the project to support communication and dissemination measures, such as publications and all kinds of written as well as visual communication about on-going and completed research activities.

- Project logo
  The design of the logo was guided by the following principles:
  - Symbolic representation of the content of the project. The focus was on some keywords: battery, vessel, energy storage, SC, SSB
  - Uniqueness and appealing design
  - Green colour to stress the environmental advantages of electrification of waterborne transport vessels.

  The AENEAS logo (Figure 2) features a figure of a vessel, serving as a visual representation of the project's focus on maritime activities. Inside the vessel, there are two distinct energy storage systems, specifically solid-state batteries and supercapacitors, symbolizing the project's emphasis on advanced energy technologies. The logo contains the project abbreviation AENEAS with the first letter "A" integrated

into the vessel's structure, further reinforcing the connection between the project and the maritime domain. This logo has been used in all communications (written deliverables, presentations, fact sheet, newsletter, social media, etc.) to increase project visibility.

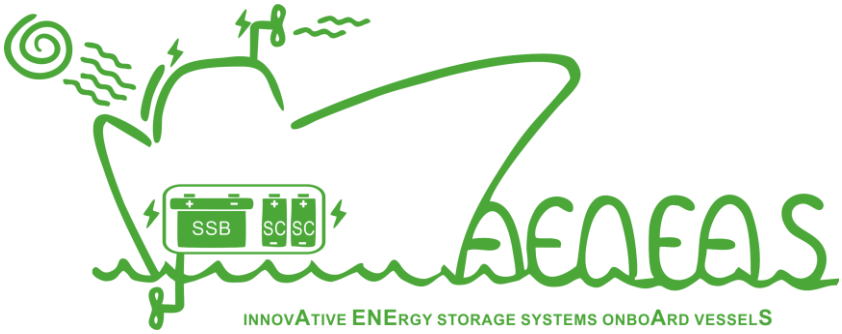

Figure 1: AENEAS Logo

- Branded templates

  Common templates for written deliverables (MS Word, see format of this report), Minutes of Meeting and AENEAS presentations (MS PowerPoint) have been created. In order to have a consistent brand identity, the design of the templates follows the same style.

2.2.2 AENEAS Website

The official website of the project (www.project-aeneas.eu) has been launched in M6 and it follows the EU recommendation regarding usability and accessibility, and gave a main description of the AENEAS project. It was updated on a regular basis (see documented news-flow below) in the three years project. It presents the main project results and activities, which are meant to be public. Furthermore, the website serves as a kind of public “business card” for stakeholders with an interest in the project or the products resulting from it. As already described in deliverable D8.3 - Data Management Plan, AENEAS website will remain available to the public for at least 2 years after the end of the project.

The main objectives of the project website as well as the description of the main structure have been reported in D7.1 “Project Website”.

I2M is responsible for editing and for carrying out website updates on a regular basis, including timely uploading of project results, papers published, deliverables released or news items to be reported. All partners have contributed to maintain the project website providing relevant input such as participation at events, papers and articles, information on the progress of work, dissemination activities etc. Moreover, all partners are encouraged to include a mention and a link to the project website (www.project-aeneas.eu) from their own organisation’s website.

Table 1: AENEAS Website structure and content

Home		
AENEAS in numbers	About us	Newsletter subscription
Project		
About	Mission	Objectives
Partners		
Value chain	Short description and logos of all beneficaries	

Results		
Press material	Newsletter	Papers
Deliverables	Milestones	
Project Synergies - EUWT Synergies Ecosystem		
News		
Contact		

As responsible partner of the maintenance of the AENEAS website, I2M made a short analysis of the website. The analysis regarded the time span from July 1, 2023 to January 15, 2026 and contains a geographical user traffic overview, highlights the high number of returning visitors and gives an overview on reasons for the visitor peaks.

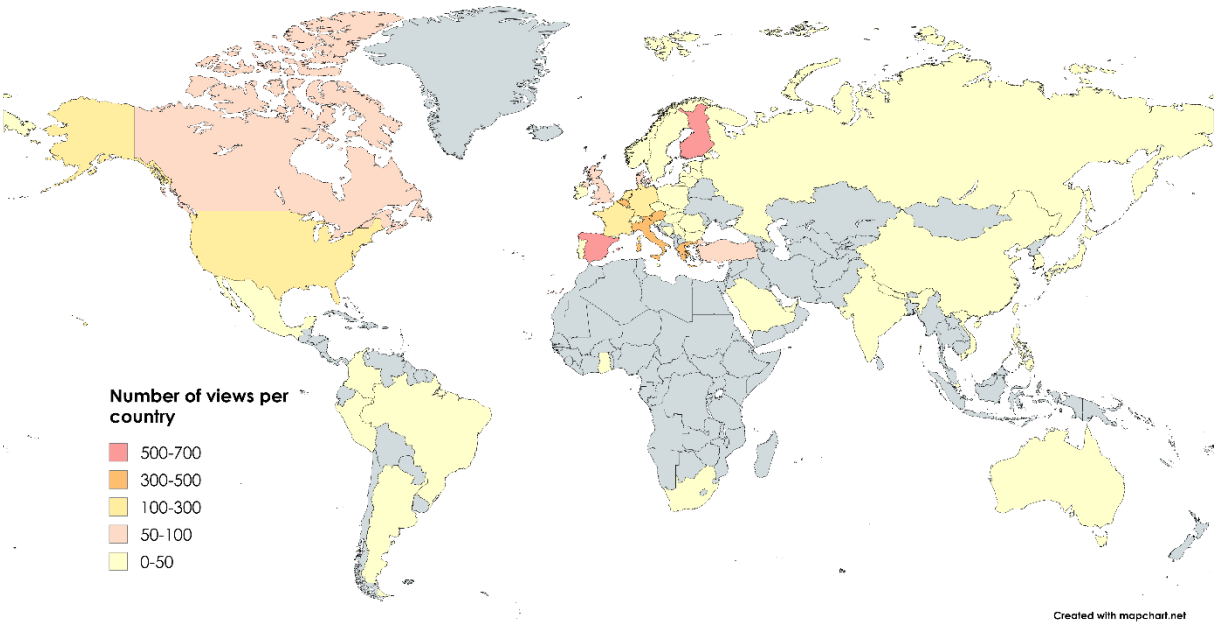

Figure 2: Number of website views per country (M1-M36)

2.2.3 AENEAS LinkedIn Account

To establish the social media presence on LinkedIn an account has been launched in M6 https://www.linkedin.com/company/aeneas-eu-project/). Results and activities regarding AENEAS project are therefore continuously disseminated as social media channels represent an important way to be in touch with the relevant community.

I2M has set up the social media for AENEAS project and is responsible for editing and for carrying out updates on a regular basis. All partners have supported the social media campaign of the project (input, posts sharing, promotion etc.).

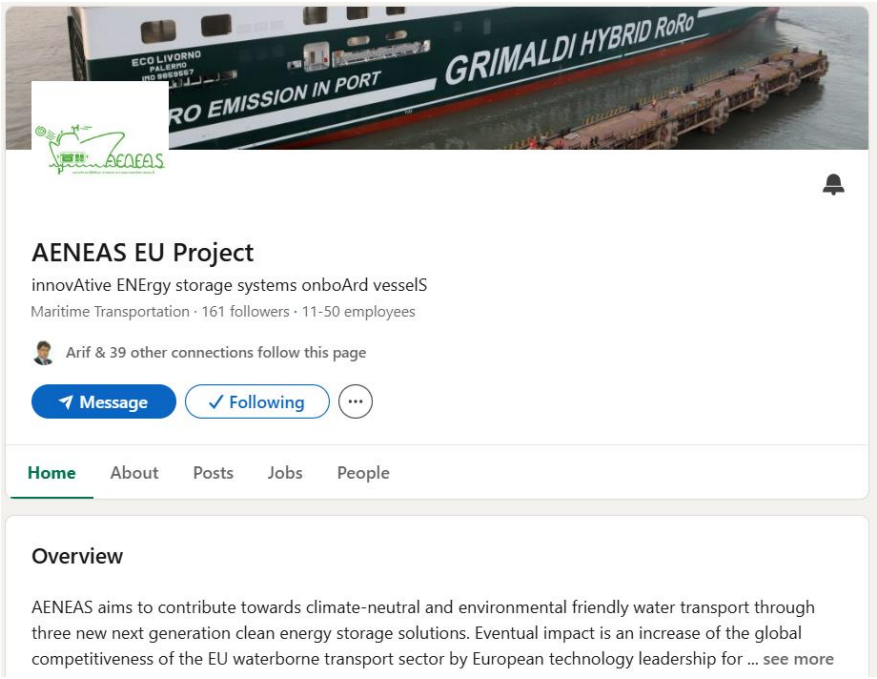

Figure 3: AENEAS LinkedIn Account

2.2.3.1 LinkedIn Analytics

As responsible partner of the maintenance of the AENEAS website, I2M made a short analysis of the LinkedIn account. The analysis regarded the time span from July 1, 2023 to January 15, 2026 and contains a geographical, job function, and industry follower overview as well as 2023-2025 number of followers, visitors, and content overview.

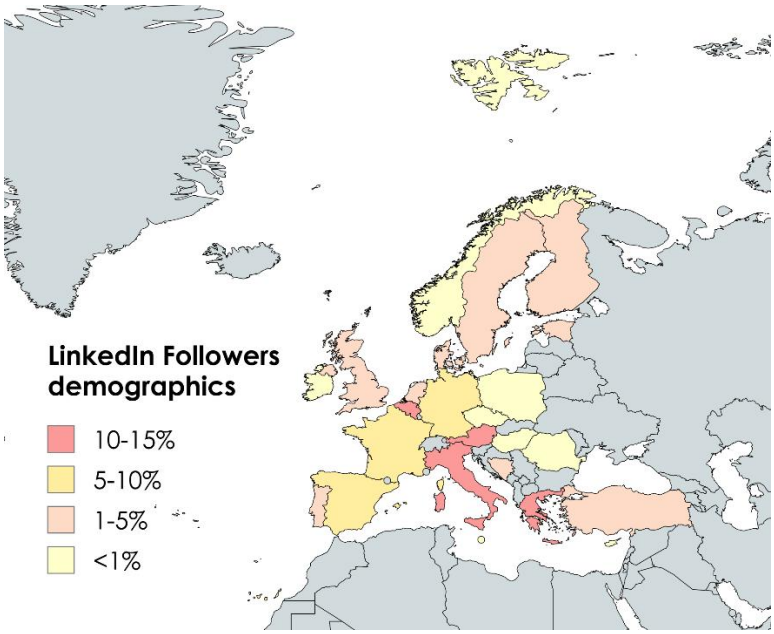

Figure 4: LinkedIn followers demographics – location

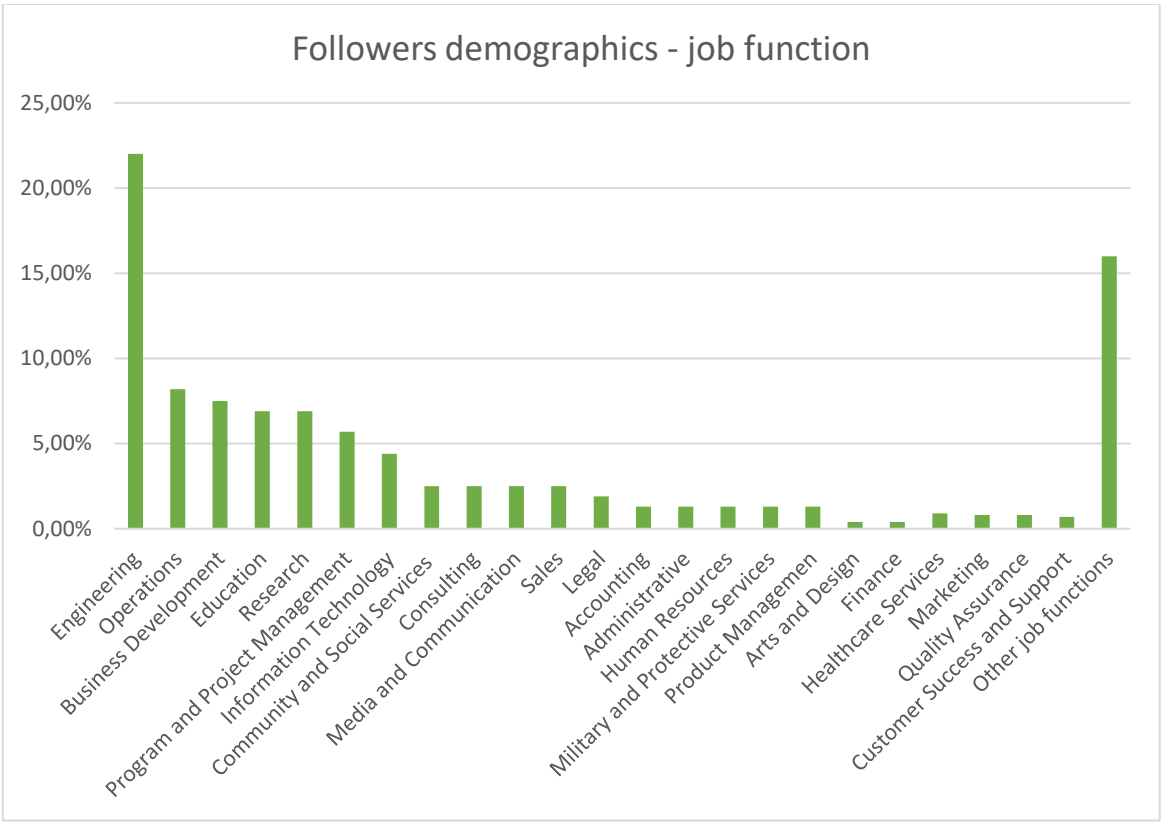

Figure 5: LinkedIn follower demographics - job function

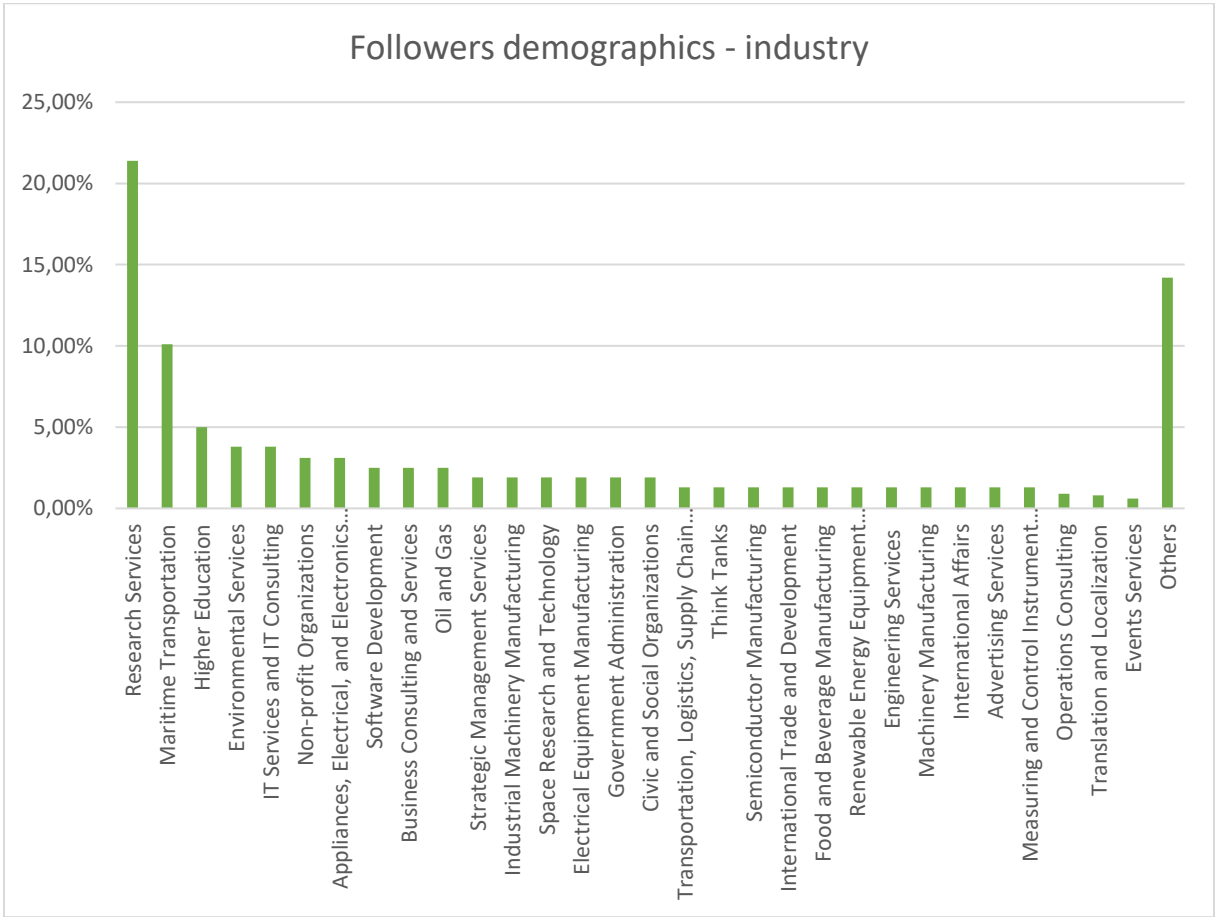

Figure 6: LinkedIn follower demographics - industry

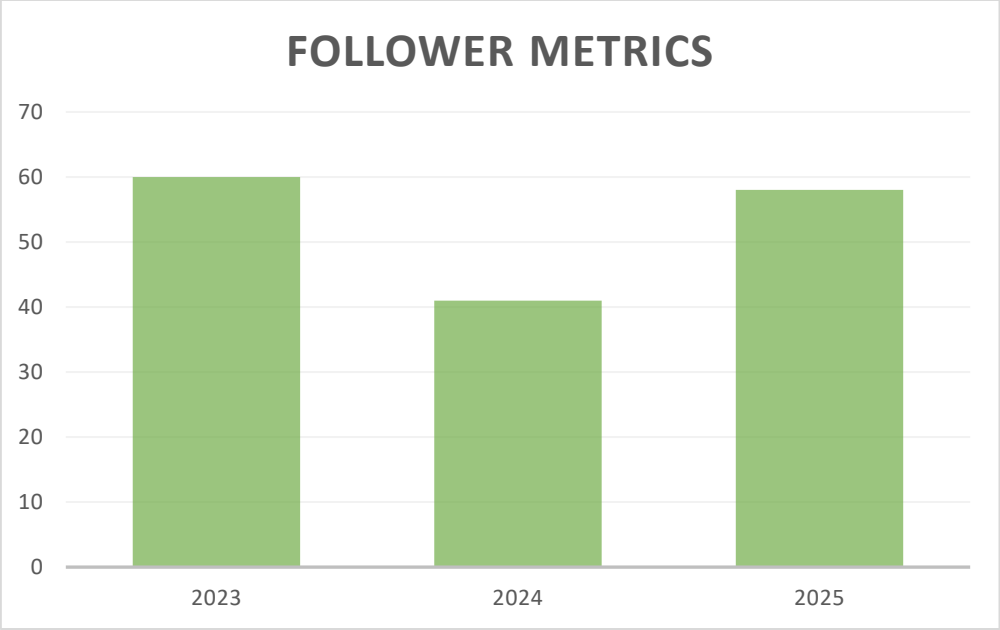

Figure 7: LinkedIn follower metrics

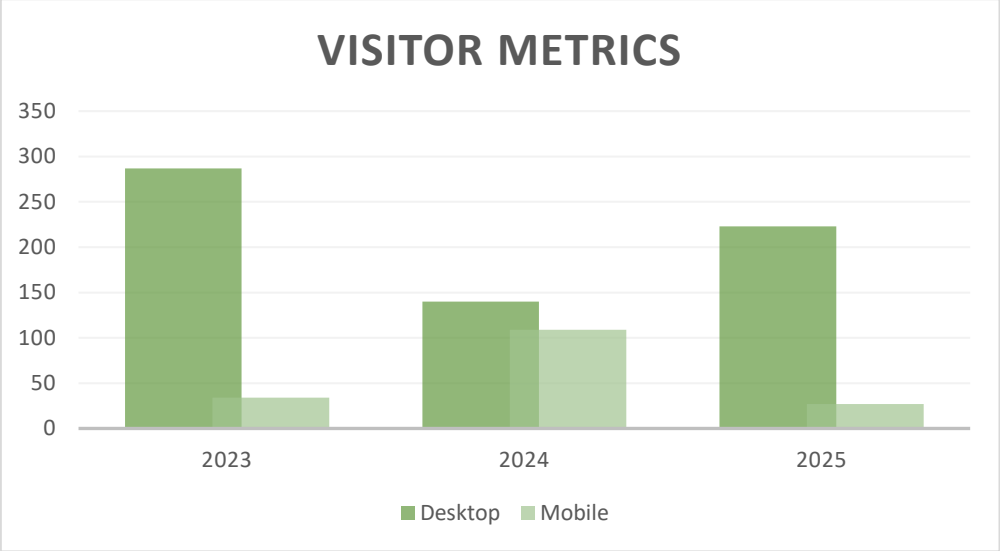

Figure 8: LinkedIn visitor metrics

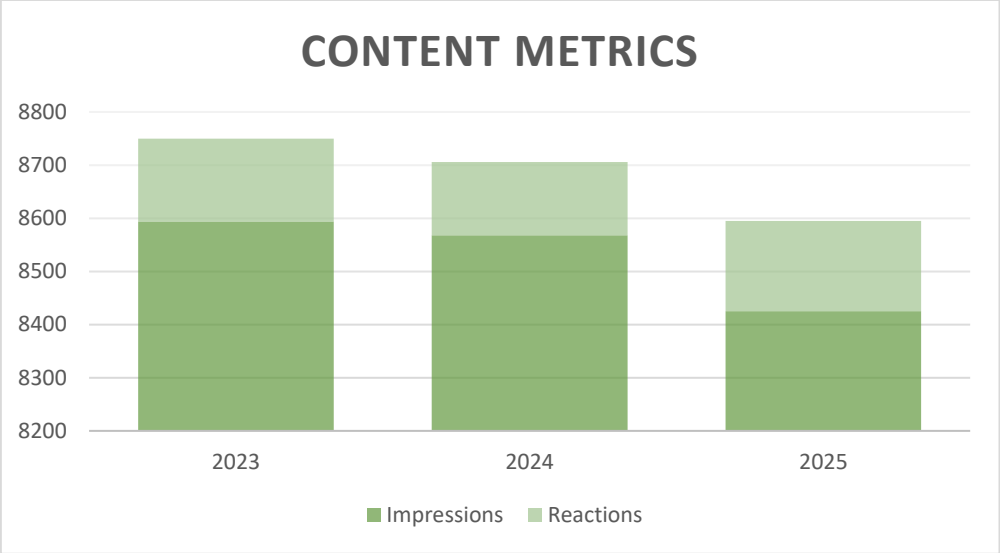

Figure 9: LinkedIn content metrics

2.2.4 Project communication materials

- General project presentation
  To effectively communicate the goals and outcomes of the project, two types of project presentations have been developed: one tailored for the general public (non-technical) and the other for experts in the field of port and harbor engineering and electric energy management (technical). These presentations have been designed to convey understandable and well-structured messages about the project. The project presentations are available on the project SharePoint, allowing all partners to utilize them when presenting the project at internal and external events. It is strongly encouraged that partners adapt the content of these presentations to suit the target audience and specific events, ensuring that the information is relevant and engaging.
  The general project presentation consists of several key sections, including context and mission, expected impact, main technologies, and an overview of the consortium. This presentation is constantly updated throughout the project as results become available.
- Project flyer
  To increase the visibility of the project among specific target groups and encourage people to subscribe to the project newsletter, a project flyer/fact sheet has been created and is widely disseminated to the contacts of the partners and on request. The flyer has an attractive appearance and contains details on the project objectives, scope, targets and foreseen outcomes. The flyer is available on the project website and all partners are encouraged to share the project flyer via organisation webpage, social media and by email to their network. The flyer will be updated to the “final version” once relevant results can be made public.
  i2m has coordinated the activities for the creation of the project flyer, supported by the WP7 leader (SOER) and all partners by providing relevant inputs and graphical pictures.

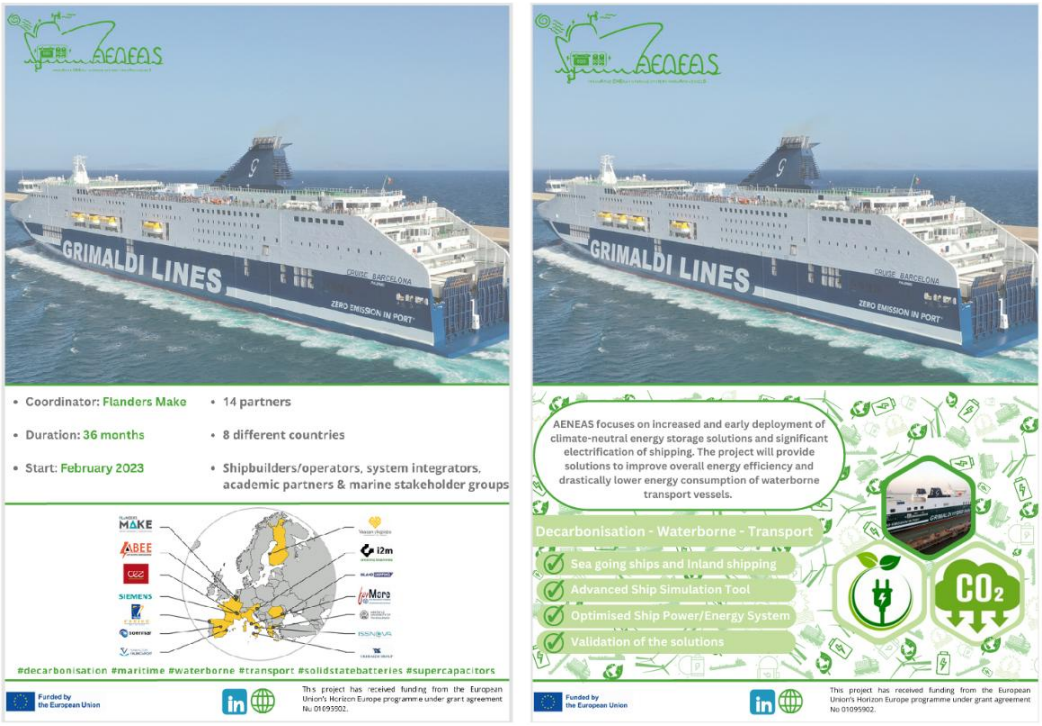

Figure 10: AENEAS flyer

2.2.5 Press releases and newsletter

To keep stakeholders informed of the progress of the project, relevant and interesting news will be communicated to all subscribers through a circulating newsletter. The timing of the publication has been decided based on relevant results of the project (half-yearly, starting in M12).

The newsletter is prepared by I2M with the inputs received from the partners and distributed via Mailchimp. Each newsletter is designed to engage the audience and provide valuable insights into the project's progress, achievements, and contributions towards a greener and more sustainable maritime industry. It is essential to keep the newsletters informative, visually appealing, and easy to understand for a diverse readership, including industry professionals, researchers, policymakers, and the general public.

Table 2: The 4 AENEAS newsletters

Newsletter Number	Month	Content/Theme
Newsletter 1	July 2024	Introduction and Project Overview
		- Introduce the AENEAS project and its objectives
		- Highlight the importance of decarbonizing waterborne
		- Showcase consortium members, stakeholders, and
		- Overview of innovative electric energy storage systems
Newsletter 2	November 2024	Research Progress and Technology Advancements
		- Update on research and development progress
		- Technological advancements achieved
		- Successful tests, trials, or pilot projects
Newsletter 3	November 2025	Technical progress review of the project
		- Comprehensive progress update across all technical work packages

		- Advancement of innovative energy storage systems (SSB, SC, and hybrid)
		- Foundations for next project phases and future impact
Newsletter 4	February 2026	Dissemination Highlights and Future Roadmap
		- Summary of dissemination activities
		- Media coverage and public engagement efforts
		- Future roadmap, upcoming events, and milestones

Newsletter reports provide an overview of the performance of our newsletter communications, including key engagement metrics such as open rate, click-through rate, and bounce rate. The analysis highlights audience reach and interaction trends over the reporting period, offering insights into the effectiveness of our dissemination activities and identifying opportunities to further improve visibility and engagement in future releases.

Table 3: AENEAS Newsletter reports

Newsletter subscribers: 62	
Email performance metric	**Average score for the first three newsletters**
Deliveries	57,5
Open rate	44
Click rate (percentage of successfully delivered messages that registered a click)	22%
Bounce rate (percentage of emails that are blocked and returned to sender)	3,4%
Unsubscribe rate	0%

2.2.6 Scientific publications

The project scientific dissemination has been supported by publications in peer reviewed journals and conferences. FMAR, as leading partner in the dissemination activities within the AENEAS project, has been committed to ensuring the wide accessibility and visibility of publications and public deliverables. As outlined in the D8.3 Data Management Plan, all publications and public deliverables have been uploaded to both the AENEAS website and the Zenodo Open Access platform. These platforms will serve as primary repositories for data outputs and storage, enabling easy access and dissemination of project-related information. Since the project start seven publications have been created.

Table 4: AENEAS list of publications

No	Publication title	Authors	Publishing organization	Journal/Magazine	Open access
1	Assessing Electrochemical Energy Storage Technologies for Waterborne Transport Applications	M. Akbarzadeh, S. Hoedemaker, R. Tessard, R. De Coster, Z. Tao & J. Stuyts	FM	Transport Transitions: Advancing Sustainable and Inclusive Mobility (TRAconference 2024)	yes
2	Exploring the process of developing emission factors for electrified vessels	S. Mamarikas, S. Spyridopoulos, F. Sellier, N. Aletras, A.	AUTH, SIE	To be published in conference proceedings currently prepared by the JRC/EU	Yes (soon)

		Papakostas, and L. Ntziachristos		(Tap conference 2025)	
3	Bi-Level Energy Management and Design Optimization for Hybrid Marine Power System Applications	D. Hernández-Torres, Z. Tao and F. Sellier	CEA, FM, SIE	2025 IEEE/AIAA Transportation Electrification Conference and Electric Aircraft Technologies Symposium (ITEC+EATS)	Yes (with institutional subscription)
4	From Vessel Profiles to PHIL Testing: Innovative Energy Storage Solutions Onboard Vessels (Featuring Results from the Horizon Europe	T. Kamal, R. Naghash, F. Sellier, Z. Tao	UVA, SIE, FM	Special Session – IEEE PES ISGT Europe 2025	
5	Development of a Downscaled PHIL Platform for Testing Maritime Energy Storage Systems			IEEE Transactions on Power Electronics	
6	Integrating System Modeling with CFD Simulations to Define Design Points for Supercapacitor Module Optimization	Guven Ogus, Remi de Coster, Zhenmin Tao, Mohsen Akbarzadeh, Grigorios Koltsakis, Stephan Schlimpert	FM, AUTH	2024 IEEE Vehicle Power and Propulsion Conference (VPPC)	Yes (with institutional subscription)
7	Evaluating Hybridization Potential Using Load Profile Metrics: A Rule-of-Thumb Approach	Sam Weckx, Ankit Surti, Zhenmin Tao	FM	Batteries	Yes

2.2.7 Conferences & speeches

AENEAS participated in several public events for the purpose of consultations, knowledge exchange and dissemination. Below the list of the events where the project was disseminated by AENEAS partners:

Table 5: AENEAS list of participations

No	Event title	Date	Location	Participant
1	**UVA's Smart Grid Research Group Workshop**	26.05.2023	Vaasa, Finland	UVA
2	**SEABAT Second Academic Workshop**	14.06.2023	Torino, Italy	SOER
3	**Waterborne days conference 2023**	26.-27.09.2023	Brussels, Belgium	FM
4	**NEMOSHIP Clustering Workshop**	17.01.2024	Brussels, Belgium	SOER
5	**Webinar – Hybrid Energy Storage System**	23.02.2024	Online	FM, SOER

6	**TRA 2024 - Transport Research Arena**	15.-18.04.2024	Dublin, Ireland	FM
7	**The Role of Simulation in Advancing the Energy Transition and Electrification**	07.05.2024	Vaasa, Finland	UVA
8	**NAVALIA - International Shipbuilding Exhibition**	21.-23.05.2024	Vigo, Spain	SOER
9	**Annual Flanders Make Symposium 2024**	22.10.2024	Leuven, Belgium	FM
10	**ESARS-ITEC 2024**	26.-29.11.2024	Naples, Italy	SOER, ISSN
11	**Maritime Battery Forum: Watts Up 2025**	05.-06.03.2025	Helsingborg, Sweden	FM
12	**EnergyWeek 2025**	17.-20.03.2025	Vaasa, Finland	UVA
13	**II Foro Industrial de Innovación del sector Marítimo**	29.05.2025	Madrid, Spain	SOER
14	**2025 IEEE Transportation Electrification Conference & Expo + Electric Aircraft Technologies Symposium**	18.-20.06.2026	Anaheim, California, USA	CEA
15	**2025 IEEE PES ISGT Europe**	20.-23.10.2025	Valletta, Malta	UVA, SIE, FM
16	**Transport and Pollution Conference 2025**	04.-06.11.2025	Paris, France	AUTH, SIE
17	**REMAST Taskforce Meeting – Joint Policy Roadmap for Zero-Emission Vessels in IWT and Short Sea Shipping**	20.11.2025	Online	FM, SOER
18	**AENEAS Presentation at the Polytechnic School of Naval Engineering in Madrid**	16.12.2025	Madrid, Spain	SOER
19	**AENEAS Project Presentation for SMACCs Erasmus Mundus Students**	14.01.2026	Vaasa, Finland	UVA

2.2.8 Workshops

In addition to the dissemination efforts mentioned, the AENEAS project has also undertaken various activities to engage stakeholders and promote knowledge sharing. These activities include organizing workshops with the stakeholders' group and academic events.

The workshops with the stakeholders' group, academic events, and the final project event serve as important platforms for engaging stakeholders, fostering collaboration, and sharing project outcomes. These activities aim to facilitate meaningful interactions and exchange of knowledge with key stakeholders involved in the project.

Table 6: List of AENEAS Stakeholder and Academic Workshops

Workshop title	Place	Date	Organiser
1st Stakeholder Workshop	Valencia, Spain	06.10.2023	SOER
1st Academic Workshop	Naples, Italy	22.03.2024	FMAR & ISSN
2nd Stakeholder Workshop	Thessaloniki, Greece	09.04.2025	SOER
2nd Academic Workshop	Thessaloniki, Greece	08.04.2025	AUTH

3rd Academic Workshop	Vaasa, Finland	09.10.2025	UVA
3rd Stakeholder Workshop	Brussels, Belgium	29.01.2026	SOER

The main objective of the first stakeholder workshop was, on the one hand, to show the stakeholders a global vision of AENEAS, as well as the objectives that are intended to be achieved with the development of the project and the innovative technological solutions that will be incorporated into the naval sector after its completion to promote and encourage the decarbonization of vessels through the integration of pioneer energy storage systems, and on the other hand, to align the concepts and requirements established in AENEAS with the needs and requirements of stakeholders, in order to confirm that both the roadmap and the technological developments of AENEAS were aimed at meeting the industry needs and demands. The participants included, besides the stakeholder representatives (Aclunaga, Astilleros de Mallorca, Astilleros Canarios S.A, Elinsa, Carlos Freire Trigo Company, Maritime Battery Forum (MBF), VARD, Fincantieri, C2CNEWCAP, Blue MBA Alumni Association, International Electric Maritime Association (IEMA)) and AENEAS consortium members, Zero Emission Waterborne Transport (ZEWT) and Batteries European Partnership Association (BEPA), representatives.

Figure 11: First AENEAS Stakeholder Workshop

The Second Stakeholder Workshop, organized by SOER and hosted by AUTH, brought together a dynamic mix of in-person and online participants to advance innovation in maritime

electric energy storage. This interactive workshop delved into key topics such as stakeholder engagement strategies and dissemination, communication and exploitation plans.

Workshop highlights included:

- A comprehensive project update outlining AENEAS's mission and progress.
- Detailed presentations on WP1–WP6, emphasizing advancements in energy storage for sustainable waterborne transport.
- Exploration of synergies with initiatives such as the EUWT-SE, FLEXSHIP, eWAVE, and BlueBARGE projects.
- An engaging Q&A session that welcomed input from stakeholders across Europe.

Figure 12: Second AENEAS Stakeholder Workshop

A final event, including the third AENEAS Stakeholder Workshop, is planned for January 2026 as the project's closing event. This final event will showcase the project's final results, as well as the viability of the developed technology in the maritime transport market, to the audience, the Advisory Board, and industrial and academic stakeholders.

In addition, to maximise the academic projects dissemination, 3 academic events at different universities/research institute have been organised.

The first academic event has been organized in Naples, Italy, by ForMare - Polo Nazionale per lo Shipping and Fondazione ISSNOVA (Research Centre) on March 22nd, 2024, with the support of all AENEAS EU Project Consortium. This hybrid event, accessible both in person and remotely, was held for an enriching exchange of ideas on how to propel the shipping sector towards a sustainable future. The workshop delved into groundbreaking initiatives like novel Energy Storage Systems (ESSs), specifically designed to enhance energy efficiency and significantly lower emissions from waterborne vessels. The day has started with a general overview of the AENEAS project, followed by a detailed discussion of individual project’s work packages. The event closed with a Q&A session on the discussions of the day. This academic forum fostered collaboration among researchers, professors, students, maritime clusters, and key stakeholders, facilitating knowledge exchange and stimulating discussions. This workshop has been a remarkable opportunity to refine the collective approach towards a greener maritime sector.

ACADEMIC WORKSHOP

AGENDA

22nd March 2024, 11:00 -14:00 CET

Stazione Zoologica A. Dohrn – Conference Room Donato Marino
Villa Comunale, 80121 - Naples, Italy

Start	End	Session	Speaker
11:00	11:30	Registration of participants and Welcome	
11:30	11:50	AENEAS general presentation	FLANDERS MAKE (BE)
11:50	12:10	**WP1 - *Operational scenario Specification and Requirements*** Presentation and open discussion	GRIMALDI (IT)
12:10	12:30	**WP2 - *Concept design and Optimization*** Presentation and open discussion	SIEMENS (FR)
12:30	12:45	Break	
12:45	13:05	**WP3 - *Cell level characterization and model development*** Presentation and open discussion	CEA (FR)
13:05	13:25	**WP4 - *Conceptual module design, prototyping and functional testing*** Presentation and open discussion	FLANDERS MAKE (BE)
13:25	13:45	**WP5 - *Testing and Validation*** Presentation and open discussion	UVA (FI)
13:45	14:00	Q&A session	ALL
		Closing	FLANDERS MAKE (BE)
14:00		Closing	

The event will be hybrid: remote connection is guaranteed.

You can **register to the event** at the following link: https://forms.office.com/e/aF1HfuDfry.

Figure 13: Invitation flyer for the 1st Academic Workshop

Figure 14: First AENEAS Academic Workshop

The Laboratory of Applied Thermodynamics (LAT) of Aristotle University Thessaloniki (AUTH) organized the 2nd Academic Workshop of AENEAS that was entitled “Sustainability Challenges and Energy Performance Modelling for Maritime Decarbonization” and which was specified in the policy emerging and scientifically challenging thematic area of sustainable shipping. The workshop explored the challenges faced by the shipping sector in reducing its environmental footprint, the technological pathways -including electrification-that offer tangible emission reductions, and the modeling tools that enhance scientific capabilities in designing energy-efficient and low-emission ships. Therefore, two thematic areas were identified. The first was a more generic overview of developments in shipping sustainability, talking about decarbonization/emission reduction pathways, the position of AENEAS in this context and the technology maturity in energy storage to support electrification. The second area intended to demonstrate how to address any new environmental/electrification challenge with modeling tools at three different scales of detail: an analytic one with physical background for component modeling as the batteries and the emission control technologies of ships, a complete powertrain ship level with analytic physics-based capabilities, and an aggregated one with the empirical method of Emission Factors. The workshop was attended by students, researchers and academics. The presentations of the workshop were conducted by members of the AENEAS consortium, who provided an academic character to their content, in order to both to scientifically explain the environmental and sustainability challenges that the academic community faces, but also to highlight and demonstrate that the models used by the project can contribute in addressing a wide spectrum of these challenges at many levels ranging from a complex to a practical one.

The analytic program and the poster of the workshop are provided below:

Part A: Sustainability challenges for shipping

Prof. Leonidas Ntziachristos (AUTH): Shipping sector decarbonization/emissions reduction pathways

Mohsen Akbarzadeh (Flandres Make): Electrification in shipping: the AENEAS project

Romain Tessard (CEA): Technological developments in energy storage systems to boost electrification

Part B: Energy/emissions performance modelling in shipping

Prof. Grigorios Koltsakis (AUTH): Detailed component modeling: Batteries & emission control technologies

Franck Sellier (SIEMENS): Detailed ship modelling: powertrain level

Sokratis Mamarikas (AUTH): Aggregated modelling approaches: the method of emission factors

Figure 15: Invitation flyer for the 2nd Academic Workshop

All the presentations of the workshop are available on the AENEAS website.

Figure 16: Second AENEAS Academic Workshop

The third academic event has been organized as part of the AENEAS project's dissemination and capacity-building actions, to enhance cooperation between research institutions, industry, and maritime stakeholders.

The third academic workshop of the AENEAS project was organized on October 9, 2025, at the Tervahovi Building, University of Vaasa, Finland, in a hybrid format attended by around 40 participants from academia, industry, and key stakeholder organizations. The event was organized with the support of all AENEAS project partners and formed part of the project's dissemination and knowledge-sharing activities. The workshop focused on novel energy storage solutions and their role in enabling the electrification of marine transportation, aiming to foster dialogue on innovative approaches to sustainable maritime technologies. The program began with an introduction to the AENEAS project delivered by Flanders Make, followed by presentations from work package leaders showcasing the project's latest progress and outcomes.

Experts from Danfoss, Wärtsilä, and WETech shared their insights relating to ongoing research and industrial practices in electrification and the maritime sector, complementing the project's scientific results. The University of Vaasa concluded the session by presenting its ongoing research activities and future collaboration opportunities.

Each presentation included an interactive Q&A session, where faculty members, researchers, students, and maritime professionals actively exchanged ideas and discussed key technical challenges. This workshop provided a valuable platform for collaborative learning, knowledge exchange, and reinforced the AENEAS objectives toward a greener and more energy-efficient maritime future. The discussions also contributed to identifying replication pathways for future vessel electrification scenarios and potential synergies with ongoing EU research initiatives.

Figure 17: Third AENEAS Academic Workshop

In general, in order to engage wider audience of stakeholders from different EU countries, a detailed dissemination strategy has been implemented to engage a wider audience of stakeholders. To this aim a database with the list of stakeholders has been created and each partner organization will be asked to mobilize its networking. Dedicated survey will be submitted to stakeholders, in order to collect their feedbacks.

2.2.9 E-lectures

To ensure wide dissemination of the innovations and results generated by our project, the University of Vaasa (UVA) and Aristotle University of Thessaloniki (AUTH) have developed a set of e-lectures designed for long-term educational impact. These digital learning materials build directly on the content presented during the project's academic workshops and are available on the official AENEAS project website, where the project's aims, activities, partners, and results are showcased. By transforming workshop content into structured e-lectures (presentations and videos) accessible online, we are providing a valuable resource for both the scientific community and the general public to understand, reuse, and build upon the project's outcomes long after the project's completion.

3 Monitoring and verification tools

3.1 KPI for dissemination measures

The quantification of the project's dissemination activities and the targeted audience are illustrated in the table below as defined in the DoA. All of them were successfully achieved.

Dissemination measure	Purpose	KPI	Targeted Audience	Status
Project updates on AENEAS website	General information	≥ 8 updates/year ≥ 500 views/year	General public, all TG	Achieved • Approximately 8 updates/year • Average 500 views/year
Organization of workshops	Knowledge exchange	≥ 1 workshops/year	Marine sector stakeholders and industry (incl ZEWT)	Achieved • 3 academic workshops
Participation in Conferences, meetings	Knowledge exchange	>20 conferences	Marine sector, technology providers, scientific community (incl ZEWT)	Achieved • 19 conferences/ events + planned
Open Access publications	Research	> 5-10 publications	Scientific Community	Achieved • 7 publications
Online publishing (online magazines, newspapers)	General information	≥ 4 newsletters	General Public, all TG	Achieved • 4 newsletters (3 + 1 in February 2026)

4 Conclusions

Over the three-year duration of the AENEAS project (M1–M36), a comprehensive and coherent dissemination, communication, and exploitation strategy has been successfully implemented to support the project's scientific, technological, and societal objectives. Through coordinated consortium-wide actions and strong individual partner contributions, AENEAS has established a consistent project identity and ensured sustained visibility across key stakeholder groups, including the scientific community, industry, policymakers, and the wider public. The range of activities undertaken—spanning scientific publications, conference participation, workshops, digital communication tools, and targeted outreach—has effectively supported the project's goals to inform and educate, promote and position project outcomes, and actively engage relevant communities.

Importantly, dissemination efforts have not been limited to the formal project lifetime. Provisions have been made to ensure the long-term availability and exploitation of AENEAS results, including the maintenance of the project website, open access to public deliverables, and the development of e-learning materials derived from academic workshops. These actions will enable continued knowledge transfer, foster future collaborations, and support the uptake of AENEAS innovations beyond the project's conclusion. Overall, the dissemination and exploitation activities carried out have laid a strong foundation for lasting impact, ensuring that the outcomes of AENEAS remain accessible, visible, and relevant well after the end of the project.

5 Acknowledgements and disclaimer

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#	Partner	Partner full name
1	FM	FLANDERS MAKE
2	CEA	COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES
3	ABEE	AVESTA BATTERY & ENERGY ENGINEERING
4	SIE	SIEMENS INDUSTRY SOFTWARE SAS
5	UVA	VAASAN YLIOPISTO
6	I2M	I2M UNTERNEHMENSENTWICKLUNG GMBH
7	GRIM	GRIMALDI EUROMED SPA
8	INLS	INLAND SHIPPING SRL
9	FV	FUNDACION DE LA COMUNIDAD VALENCIANA PARA LA INVESTIGACION, PROMOCION Y ESTUDIOS COMERCIALES DE VALENCIAPORT
10	AUTH	ARISTOTELIO PANEPISTIMIO THESSALONIKIS
11	SOER	FUNDACION CENTRO TECNOLOGICO SOERMAR
12	FMAR	FORMARE- POLO NAZIONALE PER LO SHIPPING SRL
13	ISSN	INSTITUTE FOR SUSTAINABLE SOCIETY AND INNOVATION
14	FS	CONSTRUCCIONES NAVALES P FREIRE SA

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Abbreviations and Definitions

Term	Definition
SC	**Supercapacitors**
SSB	**Solid state batteries**
DoA	**Description of Action**

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